

Transportation Analysis

TA - M309

TH5 - CSAH4 to Ring Road



PREPARED BY
THE MINNESOTA DEPARTMENT OF TRANSPORTATION
PLANNING DIVISION
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TRAFFIC VOLUME PROJECTIONS T.H. 5 FROM CSAH 4 TO RING ROAD

This report contains estimated year 2000 Average Weekday Traffic (AWDT) and peak hour volumes on T.H. 5 from CSAH 4 to Ring Road (Prairie Center Drive) in Eden Prairie.

The volumes shown, in this report, assume that the new proposed T.H. 169/212 expressway connecting T.H. 5 and in place T.H. 169/212 will not be constructed by the year 2000.

Volumes shown are based on assignments of the year 2000 zonal vehicular interchanges (ADT and PM peak) to the current in place road network, i.e., System 3C 1980 Network (2-15-84). In addition to the network assignment, the following items were used to develop the enclosed year 2000 volumes:

- 1) Current (1982) and historical (1972-1982) ADT counts taken along T.H. 5 and various major cross streets by the Data Collection Unit of Mn/DOT.
- 2) Peak hour turning movement counts and 24 hour mainline counts taken along T.H. 5 by District 5 staff in August of 1983.
- 3) Loaded link and loaded tree analysis of the computer assignment by Traffic Forecast Unit staff.
- 4) Field trips to the area in order to examine land use patterns of development and to take short counts as needed.

Projected traffic volumes for years beyond 2000 may be obtained by assuming an annual compounded growth rate of 2.5 percent.

In addition, projected traffic volumes for the years 1987 and 1997 may be obtained by factoring the enclosed year 2000 figures by 0.75 and 0.94 respectively. The high consecutive eight (8) hour volumes for any of the years can be determined by factoring the AWDT volumes by 0.5125.

